Chehalis Power Generating, LP

Chehalis Generating Facility

Title V Basis Statement for Air Operating Permit EFSEC/06-01-AOP

Draft Issued: April 10, 2006

Energy Facility Site Evaluation Council 925 Plum Street SE, Building 4 Olympia, WA 98504-3172 Telephone: (360) 956-2121

PERMIT #: EFSEC/06-01-AOP

PREPARED FOR: Chehalis Power Generating, LP

1813 Bishop Road Chehalis, WA 98532

PLANT SITE: Chehalis Generating Facility

1813 Bishop Road Chehalis, WA 98532

PERMIT ENGINEER: Clint H. Lamoreaux - SWCAA Air Quality Engineer

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I. GENERAL INFORMATION AND CERTIFICATION

1. Company Name: Chehalis Power Generating, LP

2. Facility Name: Chehalis Generating Facility

3. Responsible Official: Duncan McCaig – Plant Manager

4. Inspection Contact Person: Kaye Emmons – Plant Engineer

5. Unified Business Identification Number: 601-571-608

6. Standard Industrial Classification (SIC) Code: 4911

7. Basis for Title V Applicability:

The Chehalis Generating Facility has the potential to emit more than 100 tons per year of sulfur dioxide, nitrogen oxides, particulate matter less than 10 microns, and carbon monoxide, all of which are criteria air pollutants listed under the Federal Clean Air Act. In addition, this facility is required to obtain a Title V Air Operating Permit because it is an affected source under Title IV (Acid Deposition Control) of the federal Clean Air Act.

8. Attainment Area:

The Chehalis Generating Facility is located in an area that is in attainment for all criteria pollutants.

9. Facility Description:

The Chehalis Generating Facility began commercial operation (for the purposes of Title IV) in June 2003. Power is generated by two GE model 7FAe+ combustion turbines operated in combined cycle mode with a single steam turbine. The facility can produce 520 MW of electrical power. An air-cooled condenser system is used in lieu of a wet cooling tower system to minimize water consumption. The combustion turbines are the only fired equipment at the facility. No duct burners, emergency generators, emergency fire pumps, or auxiliary boilers have been installed at this facility.

10. Permitting Authority:

The Washington Energy Facility Site Evaluation Council (EFSEC) is the permitting authority for the Chehalis Generating Facility. EFSEC implements its Air Operating Permit program through Washington Administrative Code (WAC) 463-78 (formerly WAC 463-39). WAC 463-78 adopts the operating permits regulations of WAC 173-401 by reference.

II. EMISSIONS UNIT DESCRIPTIONS

EU-1 Combustion Turbine #1 (CT1)

CT1 consists of one General Electric model 7FAe+ gas turbine (serial number 298136) and an unfired heat recovery steam generator (HRSG). The turbine drives a 60-hertz, 18-kilovolt generator (serial number 338X439). The gas turbine is designed to produce approximately 175 MW of electrical power and the steam turbine is designed to produce approximately 170 MW of electrical power (using steam from both HRSGs). The gas turbine operates on natural gas, however, in the case of a natural gas curtailment, the turbine can operate on low sulfur distillate oil.

Emissions from the combustion turbine consist primarily of NO_X , CO, SO_2 , PM, and VOC. A selective catalytic reduction (SCR) system, using aqueous ammonia as a reducing reagent, controls emissions of nitrogen oxides (NO_X) and causes emissions of ammonia (NH_3). An oxidation catalyst controls carbon monoxide (NO_X) emissions. Emissions of particulate matter and volatile organic compound emissions are minimized by the use of fuels with low ash contents and optimization of combustion parameters to provide for complete combustion. Combustion gases from the combustion turbine are discharged to the atmosphere through a stack measuring approximately 19 feet in diameter by 150 feet tall.

CT1 was first fired on May 25, 2003. CT1 commenced commercial operation on June 13, 2003.

EU-2 Combustion Turbine #2 (CT2)

CT2 consists of one General Electric model 7FAe+ gas turbine (serial number 298137) and an unfired heat recovery steam generator (HRSG). The turbine drives a 60-hertz, 18-kilovolt generator (serial number 338X440). The gas turbine is designed to produce approximately 175 MW of electrical power and the steam turbine is designed to produce approximately 170 MW of electrical power (using steam from both HRSGs). The gas turbine operates on natural gas, however, in the case of a natural gas curtailment, the turbine can operate on low sulfur distillate oil.

Emissions from the combustion turbine consist primarily of NO_X, CO, SO₂, PM, and VOC. A selective catalytic reduction (SCR) system, using aqueous ammonia as a reducing reagent, controls emissions of nitrogen oxides (NO_X) and causes emissions of ammonia (NH₃). An oxidation catalyst controls carbon monoxide (CO) emissions. Emissions of particulate matter and volatile organic compound emissions are minimized by the use of fuels with low ash contents and optimization of combustion parameters to provide for complete combustion. Combustion gases from the combustion turbine are discharged to the atmosphere through a stack measuring approximately 19 feet in diameter by 150 feet tall.

CT2 was first fired on May 31, 2003. CT2 commenced commercial operation on June 5, 2003.

III. EXPLANATION OF INSIGNIFICANT EMISSIONS UNIT DETERMINATIONS

The following equipment was identified in the permittee's application as insignificant. Each emission unit listed as insignificant in the permit has been reviewed by EFSEC to confirm its status.

None of the listed equipment is a significant source of emissions or is subject to any equipment specific air quality requirements.

Equipment Description	Size or Capacity	Justification
Fuel Oil (#2 diesel) piping	not applicable	WAC 173-401-530(1)(d) – only fugitive
fugitive emissions		emissions
Fuel Oil Storage Tanks (two	1,700,000 gallons	WAC 173-401-530(1)(c) – actual vapor
tanks)	each	pressure less than 5 mm Hg @ 21°C (category
		listed in WAC 173-533(2)(t)).
Natural Gas Piping	not applicable	WAC 173-401-530(1)(d) – only fugitive
		emissions
Inlet Gas Drain Tank	250 gallons	WAC 173-401-530(1)(a) – below emissions
		thresholds
19% Aqueous Ammonia	32,000 gallons	WAC 173-401-530(1)(a) – below emissions
Storage Tanks		thresholds
Oil/Water Separator	<500 gallons	WAC 173-401-530(1)(b) – actual vapor
		pressure less than 550 mm Hg @ 21°C, tank
		less than 1,100 gallons (category listed in
		WAC 173-533(2)(b)).
Waste Oil Tank (as	150 gallons	WAC 173-401-530(1)(b) – actual vapor
separator)		pressure less than 550 mm Hg @ 21 °C, tank
		less than 1,100 gallons (category listed in
		WAC 173-533(2)(b)).
Waste Fuel Drain Tanks (2)	500 gallons each	WAC 173-401-530(1)(b) – actual vapor
		pressure less than 550 mm Hg @ 21°C, tank
		less than 1,100 gallons (category listed in
		WAC 173-533(2)(b)).
Miscellaneous Wastewater	1,000 - 2,500	WAC 173-401-530(1)(b) – categorically
Collection Sumps	gallons each	exempt equipment listed in WAC 173-401-
		532(120)
Sanitary Waste Storage Area	3,100 gallons	WAC 173-401-530(1)(b) – categorically
		exempt as per WAC 173-401-532(6)

IV. EXPLANATION OF SELECTED TERMS AND CONDITIONS

Req. 1-7 General Standards for Maximum Emissions

[WAC 173-400-040]

WAC 173-400-040 establishes maximum emission standards for various air contaminants. These requirements are general statewide standards, and apply to all sources of air contaminants. Therefore, these requirements apply to all emission units at the source, both EU and IEU. Pursuant to WAC 173-401-530(2)(c), the permit does not contain any testing, monitoring, recordkeeping, or reporting requirements for IEUs except those specifically identified by the underlying requirements.

Req-6 prohibits any concealment or masking. At present, the permittee does not operate any equipment capable of masking emissions, therefore monitoring is limited to the annual compliance certification

Req. 8 Emission Standards for General Process Units

[WAC 173-400-060]

WAC 173-400-060 establishes maximum particulate matter emission standards for general process units. These requirements apply to any general process units at the source, including IEUs. The definition of a "general process unit" excludes combustion units, therefore this requirement does not apply to the exhaust stacks of EU-1 or EU-2. Pursuant to WAC 173-401-530(2)(c), the permit does not contain any testing, monitoring, recordkeeping, or reporting requirements for IEUs except those specifically identified by the requirements as applying to IEUs.

At the current time, no general process units have been identified at this facility with the potential to emit particulate matter. This requirement was included in the permit to apply to operations not currently identified or not yet installed at the facility.

Req. 11 – Fuel Firing Restrictions

EFSEC/95-02 Amendment 2, Conditions 1.1 & 1.2

Conditions 1.1 and 1.2 of EFSEC/95-02 Amendment 2 requires that the combustion turbines be fired on natural gas except when natural gas is not available and during limited test periods. "On-road specification diesel fuel" may be burned during these periods.

"On-road specification diesel fuel" refers to the on-road specifications from 40 CFR 80.29 as amended through July 1, 1992.

Hours of operation on oil for test periods and startup count towards the 720 hour limit of operation on oil.

Req. $12 - NO_X$ Emission Limits

40 CFR 60.332(a)(1) WAC 463-78-115 EFSEC/95-02 Amendment 2, Conditions 2.1, 2.2, 2.3, & 24

Conditions 2.1, 2.2, and 2.3 of EFSEC/95-02 Amendment 2 provide NO_X emission limits during both natural gas and oil firing. In accordance with Condition 24 of EFSEC/95-02 Amendment 2, these limits apply on a CEM clock hour or calendar day basis when the CEMS is being used to measure emissions. For days when a turbine is fired on both natural gas and oil, a time-weighted average of the gas and oil firing emission limits applies. The last sentence in this requirement states that the oil-firing limit applies for any hour in which oil is fired. It is not practical to split up emission limits into fractions of an hour according to which fuel is being burned, therefore it was determined that the emission limit would need to apply to any hour in which fuel oil is burned.

40 CFR 60.332(a)(1) provides a parallel NO_X emission limit for combustion turbines, however this limit is far less restrictive that the limits provided by Conditions 2.1 and 2.2 of EFSEC/95-02 Amendment 2. Compliance with the emission limits of Conditions 2.1 and 2.2 will assure compliance with the NO_X emission limit in 40 CFR 60.332(a)(1), therefore only the limits from Conditions 2.1 and 2.2 were listed. 40 CFR 60.332(a)(1) provides for a limit of at least 75

ppmvd @ 15% O_2 (the limit can increase based on the magnitude of any fuel-bound nitrogen allowance and the manufacturer's rated heat rate at manufacturer's rated load).

Req. 13 – CO Emission Limits

EFSEC/95-02 Amendment 2, Conditions 3.1, 3.2, & 24

Conditions 3.1 and 3.2 of EFSEC/95-02 Amendment 2 provide CO emission limits during both natural gas and oil firing. In accordance with Condition 24 of EFSEC/95-02 Amendment 2, these limits apply on a CEM clock hour or calendar day basis when the CEMS is being used to measure emissions. The last sentence in this requirement states that the oil-firing limit applies for any hour in which oil is fired. It is not practical to split up emission limits into fractions of an hour according to which fuel is being burned, therefore it was determined that the emission limit would need to apply to any hour in which fuel oil is burned.

Req. $14 - SO_2$ Emission Limits

EFSEC/95-02 Amendment 2, Conditions 4.1 & 4.2

Conditions 4.1 and 4.2 of EFSEC/95-02 Amendment 2 provide SO₂ emission limits during both natural gas and oil firing. The last sentence in this requirement states that the oil-firing limit applies for any hour in which oil is fired. It is not practical to split up emission limits into fractions of an hour according to which fuel is being burned, therefore it was determined that the emission limit would need to apply to any hour in which fuel oil is burned.

Req. 15 – VOC Emission Limits

EFSEC/95-02 Amendment 2, Conditions 5.1 & 5.2

Conditions 5.1 and 5.2 of EFSEC/95-02 Amendment 2 provide VOC emission limits during both natural gas and oil firing. Because the term "volatile organic compounds" (VOCs) describes a large class of compounds, a standard compound (in this case propane) must be used in order to compare emission limits and source test results using EPA Method 25A. If the relative concentrations of each volatile organic species is known, the actual emission rate of each species and the total emission rate of VOCs can be determined. VOC speciation data is not required.

For days when a turbine is fired on both natural gas and oil, a time-weighted average of the gas and oil firing emission limits applies. The last sentence in this requirement states that the oil-firing limit applies for any hour in which oil is fired. It is not practical to split up emission limits into fractions of an hour according to which fuel is being burned, therefore it was determined that the emission limit would need to apply to any hour in which fuel oil is burned.

Req. 16 – PM₁₀ Emission Limits

EFSEC/95-02 Amendment 2, Conditions 6.1 & 6.2

Conditions 6.1 and 6.2 of EFSEC/95-02 Amendment 2 provide PM_{10} emission limits during both natural gas and oil firing. EPA Method 5 was listed as a reference test method because it is presumed that all particulate matter generated from this source will have an aerodynamic diameter of 10 μ m or less. EPA Method 201A would be considered a superior test method for the determination of PM_{10} , but was not listed due to inherent method limitations and the fact that all particulate matter is expected to be PM_{10} . This permit limit is based solely on the filterable

component of PM_{10} and does not require consideration or testing of the condensable fraction of PM_{10} .

For days when a turbine is fired on both natural gas and oil, a time-weighted average of the gas and oil firing emission limits applies.

Req. 17 – Sulfuric Acid Emission Limit

EFSEC/95-02 Amendment 2, Conditions 7.1 & 7.2

Conditions 7.1 and 7.2 of EFSEC/95-02 Amendment 2 limits sulfuric acid emissions from EU-1 and EU-2. Because of the interference caused by ammonia in the exhaust gas, EPA Method 8 cannot be used without modification to measure sulfuric acid emissions.

The last sentence in this requirement states that the oil-firing limit applies for any hour in which oil is fired. It is not practical to split up emission limits into fractions of an hour according to which fuel is being burned, therefore it was determined that the emission limit would need to apply to any hour in which fuel oil is burned.

Req. 18 – Opacity Limit

EFSEC/95-02 Amendment 2, Condition 8

Condition 8 of EFSEC/95-02 Amendment 2 limit opacity from the HRSG exhaust stacks to 10 percent or less on a 6-minute average. EPA Method 9 or an equivalent method must be used daily to confirm compliance. When no visible emissions are present, EPA Method 22 is an equivalent method. Both EPA Method 9 (which requires a certified observer) and EPA Method 22 can be used to determine the presence or absence of visible emissions. The presence of visible emissions is highly unlikely at this facility, except during periods of extreme upset conditions.

Req. 19 – Ammonia Emission Limits

EFSEC/95-02 Amendment 2, Conditions 9.1, 9.2, 9.3, & 9.4

Conditions 9.1, 9.2, 9.3, and 9.4 of EFSEC/95-02 Amendment 2 limits ammonia emissions from EU-1 and EU-2. For days when a turbine is fired on both natural gas and oil, a time-weighted average of the gas and oil firing emission limits applies.

Reg. 20a, 20b – Startup and Shutdown Provisions

EFSEC/95-02 Amendment 2, Conditions 10.1, 10.2, 10,3, 10.4, 10.5, 10.6, & 10.7

Conditions 10.2, 10.3, 10.6, and 10.7 of EFSEC/95-02 Amendment 2 provide for special provisions regarding the duration and number of combustion turbine startup and shutdown events because the combustion turbines cannot meet all the emission limits that apply during normal operation. Alternative CO and NO_X emission limits are provided by Conditions 10.4 and 10.5 of EFSEC/95-01 Amendment 2. These alternative limits only apply during the startup and shutdown periods defined in Condition 10.6 of EFSEC/95-01 Amendment 2.

The number of startups per 24-hour period and per year were not limited to comply with ambient air impact limitations. The limits on the number of startups apply to normal startups. Startups

resulting from upset conditions (e.g. after emergency shutdowns or unit trips) do not count towards the limitations provided in Conditions 10.2 and 10.3. After a unit trip, the unit can often return to service quickly; to require an extended period of time to elapse before allowing it to return to service (e.g. to get outside of a 24-hour period with two startups) could result in a longer cooling period and a longer startup resulting in greater overall emissions.

Req. 22 – Source Emission Sampling Access

40 CFR 60.8(e) WAC 463-78-115 EFSEC/95-02 Amendment 2, Condition 13

40 CFR 60.8(e) requires the owner or operator of an NSPS applicable unit to provide safe access to adequate test ports, and the utilities necessary to conduct applicable sampling required of NSPS applicable units. Both turbines are subject to 40 CFR 60 Subpart GG, and therefore such access is required for the performance of EPA Method 20. Condition 13 of EFSEC/95-02 Amendment 2 requires safe access to test ports, but does not mention providing testing utilities. The sentence in Req. 22 concerning utilities is solely from 40 CFR 60.8(e).

Req. 23 – Operating and Maintenance Manuals

EFSEC/95-02 Amendment 2, Condition 19

Condition 19 of EFSEC/95-02 Amendment 2 requires the permittee to maintain operation and maintenance manuals for equipment at the facility that can affect emissions. Operations and maintenance manuals may be used to investigate excess emissions events and determine if such events were avoidable. Reasonable inquiry conducted for the annual compliance certification is adequate to assure that these manuals are maintained at the facility.

V. EXPLANATION OF OBSOLETE AND FUTURE REQUIREMENTS

1. Obsolete Air Emission Permits/Orders

EFSEC/95-02 was issued on June 18, 1997 for construction and operation of the Chehalis Generating Facility. EFSEC/95-02 approved installation of two 230 MW combined cycle combustion turbines and a single auxiliary boiler. The turbines would primarily fire natural gas, but could fire fuel oil when natural gas was not available. SCR was not required.

EFSEC/95-02 Extension 1 was issued on November 16, 1998. EFSEC/95-02 Extension 1 approved an 18 month extension of the PSD approval to begin actual construction of the Chehalis Generating Facility.

EPA Administrative Order On Consent No. CAA-10-2001-0095 was issued March 22, 2001. The Consent Order required Chehalis Power to request a PSD permit revision requiring the installation of SCR to control NO_X emissions to 3.0 ppmvd @ 3% O₂ while firing natural gas and 14 ppmvd @ 3% O₂ when firing fuel oil. The Consent Order also allowed Chehalis Power to begin actual construction of the facility prior to receiving the revised PSD permit. The Consent Order terminated with issuance of PSD permit EFSEC/95-02 Amendment 1.

EFSEC/95-02 Amendment 1 was issued on April 17, 2001. EFSEC/95-02 Amendment 1 approved a revision of the NO_X emission limit to 3.0 ppmvd @ 3% O_2 while firing natural gas and 14 ppmvd @ 3% O_2 when firing fuel oil .

2. Future Requirements

No future requirements are anticipated.

3. 40 CFR 60.7 "Notification and Record Keeping"

The combustion turbines are subject to 40 CFR 60.330 et seq. (Subpart GG) "Standards of Performance for Stationary Gas Turbines." Therefore, these units are also subject to the notification requirements of 40 CFR, Section 60.7. These requirements have been met as described below.

Combustion Turbine

Notification of construction: Submitted to EFSEC via letter dated October 25, 2001 Notification of anticipated startup: Submitted to EFSEC via letter dated March 13, 2003 Notification of actual startup: Submitted to EFSEC via letter dated June 17, 2003

4. 40 CFR 60.8 "Performance Tests"

The combustion turbines are subject to the NO_X standard described in 40 CFR 60.332. Therefore the unit is also subject to the performance testing requirements of 40 CFR 60.8. These requirements have been met as described below.

Notification of source test dates: Submitted to EFSEC on July 29, 2003

Initial source test: Performed on August 20-21, 2003 (CT1)

Performed on August 23-24, 2003 (CT2)

Source test report: Initial Report Dated November 25, 2003

Revised Report Dated April 22, 2004

5. 40 CFR 75.61 "Notifications"

The combustion turbine is subject to the requirements of 40 CFR 75.61 "Notifications." These requirements have been met as described below.

Notification of actual startup date:

Notification of initial CEMS certification:

Initial CEMS certification test:

Submitted to EFSEC on June 17, 2003

Submitted to EFSEC on July 29, 2003

Completed on August 21, 2003 (CT1)

Completed on August 23, 2003 (CT2)

6. 40 CFR 75.62 "Monitoring Plan"

The combustion turbine is subject to the requirements of 40 CFR 75.62 "Monitoring Plan." The initial monitoring plan required by 40 CFR 75.62 was submitted to EFSEC and EPA on July 15, 2003.

7. 40 CFR 75.63 "Initial Certification or Recertification Application"

The combustion turbine is subject to the requirements of 40 CFR 75.63. The results of the initial CEM certification tests were submitted to EPA on December 23, 2003.

VI. EXPLANATION OF MONITORING REQUIREMENTS

M1. Visible Emission Monitoring

This monitoring requirement is used to provide a reasonable assurance of compliance with the applicable requirements drawn from WAC 173-400, and EFSEC/95-02 Amendment 2. Visible emissions monitoring of EU-1 and EU-2 is required by Condition 8 of EFSEC/95-02 Amendment 2. Condition 8 requires daily monitoring when firing oil, or weekly monitoring when firing natural gas, utilizing EPA Reference Methods 9, 22, or an equivalent method approved by EFSEC. EPA Method 22 may be used when no visible emissions are observed. It is expected that no visible emissions will be observable during normal operations.

Because EPA Method 9 cannot be used to demonstrate compliance with the 20% opacity standard listed in WAC 173-400-040(1), Washington Department of Ecology Method 9A must be utilized in addition to EPA Method 9 whenever visible emissions are observed when conducting the daily monitoring. This monitoring was added under the "gap-filling" provisions of WAC 173-401. The only significant difference in these two methods is the data reduction methods and the fact that Washington Department of Ecology Method 9A may require a longer period of observation to demonstrate compliance with the opacity standard.

Only the general standards of WAC 173-400 apply to sources of emissions other than EU-1 and EU-2. WAC 173-400 does not directly establish any specific regime of monitoring and recordkeeping. Consequently, EFSEC has implemented monitoring and recordkeeping requirements for these sources under the "gap filling" provisions of WAC 173-401-615. These requirements consist of measuring the opacity of emissions from these sources when indicated by a complaint or if otherwise unusual emissions are observed.

M2. Fugitive Emissions Monitoring

This monitoring requirement is used to provide a reasonable assurance of compliance with the applicable requirements drawn from WAC 173-400 with regard to fugitive emissions. These requirements do not directly establish any specific regime of fugitive emissions monitoring or recordkeeping. Consequently, EFSEC has implemented monitoring and recordkeeping requirements under the "gap filling" provisions of WAC 173-401-615. Because there is not much opportunity for the generation of fugitive emissions at this facility, and most fugitive emissions would be readily noticeable by plant personnel or indicated by a complaint (especially in the event of excessive road dust), monthly monitoring was believed to provide a reasonable assure of compliance.

M2 is designed to assure compliance through a combination of periodic facility inspections and prompt corrective action whenever necessary.

M3. Complaint Monitoring

This monitoring requirement is used to provide a reasonable assurance of compliance with the applicable requirements drawn from WAC 173-400 and EFSEC/95-02 Amendment 2. These requirements do not directly establish any specific regime of complaint monitoring or recordkeeping. Consequently, EFSEC has implemented monitoring and recordkeeping requirements under the "gap filling" provisions of WAC 173-401-615. M3 is designed to assure compliance through prompt complaint response and corrective action whenever necessary.

M4. Performance Testing

This monitoring requirement is used to provide a reasonable assurance of compliance with the emission limits identified in EFSEC/95-02 Amendment 2. Initial source testing for 40 CFR 60 Subpart GG, and all initial testing required by EFSEC/95-02 Amendment 2 was completed in August 2003. The only on-going source testing requirements are found in Condition 15 of EFSEC/95-02 Amendment 2.

M5. Continuous Emissions and Process Monitoring

This monitoring requirement is used to provide a reasonable assurance of compliance with the emission limits identified in EFSEC/95-02 Amendment 2 and the monitoring requirements of 40 CFR 75 (for the Acid Rain program).

EFSEC/95-02 Amendment 2 identified the "requirements contained in 40 CFR, Part 60, Appendix B..." for the CO CEMS. The most relevant performance standard in Appendix B is Performance Specification 4A, therefore the requirements of Performance Specification 4A were specifically identified in this monitoring requirement.

EFSEC/95-02 Amendment 2 identified the "requirements contained in 40 CFR, Part 60, Appendix B..." for the NH₃ CEMS. The most relevant performance standard in Appendix B is Performance Specification 2, therefore the requirements of Performance Specification 2 were specifically identified in this monitoring requirement.

Condition 16 of EFSEC/95-02 Amendment 2 requires the permittee to report "CEMS and process data" to EFSEC and EPA Region X. To be reported, this information must be collected by the permittee. The specific CEMS and process data elements were not identified, but must at a minimum, consist of all data necessary to determine compliance with the permitted emission limits. Collection of the relevant CEMS data for NO_X, CO, and NH₃ were required (in units and averaging times consistent with the emission limits), as well as fuel flow data to calculate emissions of all other pollutants. Turbine generator electrical output was required as a quality assurance check on the fuel flow data since turbine heat rates should remain relatively constant at any specific load.

M6. SO₂ General Standard Monitoring

This monitoring requirement is used to provide a reasonable assurance of compliance with the applicable requirements drawn from 40 CFR 60 Subpart GG, 40 CFR 75, and EFSEC/95-02 Amendment 2. 40 CFR 60 Subpart GG limits fuel sulfur content to 0.8% by weight. 40 CFR 60 Subpart GG requires proof that gaseous fuel meet the definition of natural gas, and requires a regime of fuel sulfur content monitoring for liquid fuels (oil). All of the sulfur content monitoring requirements of 40 CFR 60 Subpart GG are satisfied by complying with the sulfur content monitoring requirements of 40 CFR 75 Appendix D.

Pipeline natural gas as defined in 40 CFR 72.2 contains less than 0.5 gr total sulfur per 100 scf.

VII. EXPLANATION OF RECORDKEEPING REQUIREMENTS

K1. Basic Recordkeeping

This recordkeeping section lists how the recordkeeping requirements of WAC 173-401-615(2) apply to inspections and certifications, complaints, upsets, and sampling and emissions testing. Basic Recordkeeping requirements were separated into Sections (a) through (d) to organize the requirements.

K1(d) "Sampling and Emission Testing" applies to source testing and RATA reports.

K2. Continuous Emissions and Process Data Recordkeeping Requirements

This recordkeeping section is taken from 40 CFR 75.57 - 75.59 and supplemented by the "gap filling" provisions of WAC 173-401-615(2).

The Acid Rain Program requires that pertinent records be maintained for at least three years from the date of the record. However, the recordkeeping provisions of the Air Operating Permit regulations, WAC 173-401-615(2)(c), require retention of records for a period of five years.

The requirement to maintain records of the CEMS and DAHS data from monitoring requirement M5 (data elements "a" through "j" of K2) is mandated by the provisions of WAC 173-401-615(2).

VIII. EXPLANATION OF REPORTING REQUIREMENTS

R1. Deviations from Permit Conditions

This reporting section is taken directly from WAC 173-400-107, WAC 173-401-615(3), and Condition 18 of EFSEC/95-02 Amendment 2. The permittee is required to report all permit deviations no later than 30 days following the end of the month during which the deviation is discovered in accordance with WAC 173-401-615(3). In accordance with WAC 173-400-107, the permittee must report permit deviations due to excess emissions as soon as possible if the permittee wishes the deviation to be considered unavoidable. EFSEC may request a full report of any deviation if determined necessary. These deviations are also reported in each semi-annual report.

R2. Complaint Reports

The permittee is required to report all complaints to EFSEC within three business days of receipt to ensure prompt complaint response. This reporting section is based on WAC 173-401-615(3).

R3. Quarterly Reports

Condition 16 of EFSEC/95-02 Amendment 2 requires the permittee to submit reports monthly unless a different testing and reporting schedule has been approved by EFSEC. With issuance of this Title V permit, EFSEC authorizes the use of a quarterly reporting schedule rather than a monthly reporting schedule for the duration of the permit. In addition, with issuance of this Title V permit, EFSEC authorizes the permittee to submit quarterly reports in an electronic format approved by EFSEC. The current practice of submitting quarterly reports in Excel format is approved as of the date of issuance of this permit. The permittee must receive pre-approval from EFSEC to submit the quarterly report in other electronic formats.

As required by EFSEC/95-02 Amendment 2, all CEMS and process data shall be reported to both EFSEC and EPA Region X. The specific CEMS and process data elements were

not identified, but must at a minimum, consist of all data necessary to determine compliance with the permitted emission limits. The relevant CEMS data for NO_X , CO, and NH_3 was required (in the units and averaging times of the emission limits), as well as fuel flow data to calculate emissions of all other pollutants. Turbine generator electrical output was required as a quality assurance check on the fuel flow data since turbine heat rates should remain relatively constant at a specific load.

R4. Semi-annual Reports

The permittee is required to provide a report on the status of all required monitoring requirements and provide a certification of all reports on a semi-annual basis. Semi-annual reporting and certification of monitoring records is required by WAC 173-401-615(3). A responsible official must certify all reports required by the Title V permit.

The semi-annual report provides information on the status of all required monitoring. The actual results (e.g. CEM data, opacity readings, etc.) do not need to be submitted unless specifically required by the permit.

No report dates are specified in WAC 173-401-615(3), but a report date must be specified to assure timely reporting and make the requirement enforceable. Report dates of April 15th and October 15th were chosen (~3.5 months after the end of the reporting period) so that the semi-annual report for the last six months of the calendar year is due at the same time as the annual compliance certification and the annual emissions inventory report.

R5. Annual Compliance Certifications

Annual Compliance Certification: The permittee is required to report and certify compliance with all permit terms and conditions on an annual basis. Annual compliance certification is required by WAC 173-401-630(5). 40 CFR 60.11(g) requires the permittee to consider credible evidence when submitting compliance certifications for NSPS affected units (EU-1 and EU-2). Any deviations from permit conditions or certifications of intermittent compliance need to be accompanied by an explanation.

WAC 173-401 does not provide a deadline date for submission of the annual compliance certification, but a deadline date is necessary to make the requirement enforceable. The April 15th date was chosen because it is the date by which the annual emissions inventory report must be submitted in accordance with WAC 173-400-105.

40 CFR 72.90 requires certification for Acid Rain requirements. In the annual compliance certification for each Acid Rain affected unit, the permittee or designated representative must indicate whether the unit held allowances in its compliance subaccount not less than the unit's total SO₂ emissions during the calendar year covered by the annual report. The permittee is required to indicate in the certification whether the monitoring plan is current, the monitors are properly certified, and all emissions were accounted for by monitoring or missing data procedures.

R6. Emission Inventory Reports

The permittee is required to report an inventory of emissions from the source, and certify compliance with all permit terms and conditions on an annual basis. A complete emissions inventory includes quantifiable emissions from all EUs and IEUs. It is not expected that emissions from the IEUs identified in Section III will be quantifiable.

R7. Source Test Reports

Condition 17.5 of EFSEC/95-02 Amendment 2 requires submittal of compliance stack test results in reference to the reporting period in Condition 16. Consistent with Condition 16, compliance source test reports must be submitted no later than 30 days after the end of the calendar quarter during which the testing was conducted. Source test reports for RATAs conducted pursuant to 40 CFR 75 may be required at an earlier date if requested by EPA Region X or EFSEC.

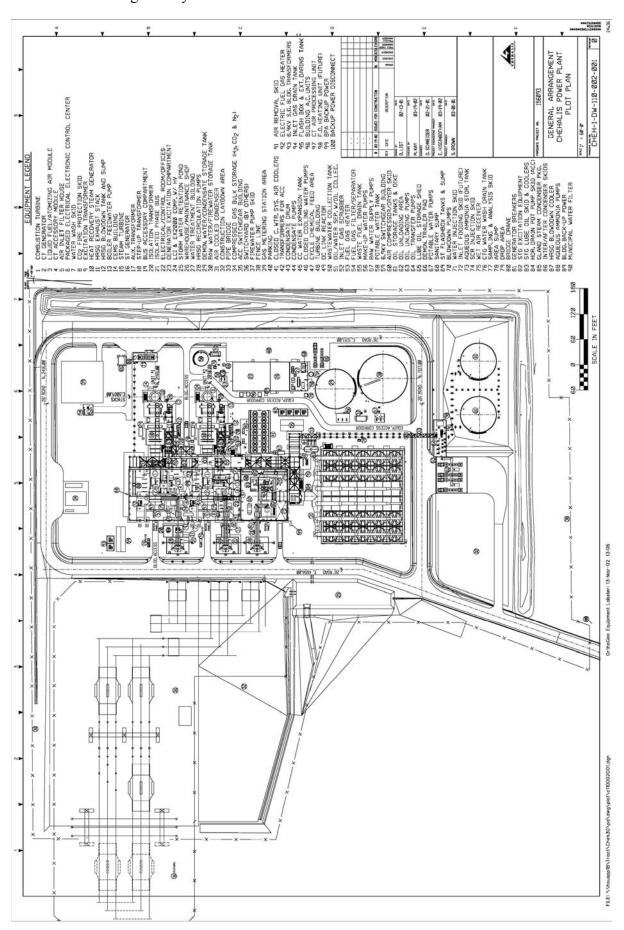
IX. APPENDICES

Appendix A contains the method by which visible emissions from the permittee's operations are to be evaluated when performing required monitoring. The federal requirements mandate the use of EPA Method 9. For EPA Method 9, the data reduction procedures detailed in EPA Method 9 must be used, not the procedures listed in Section 2.5.

XI. PERMIT ACTIONS

1.	Initial Permit Application:	May 12, 2004
2.	Permit Application deemed complete:	May 25, 2004
3.	Permit Application sent to EPA:	May 25, 2004
4.	Draft Permit Issued:	April 10, 2006
5.	Proposed Permit Issued:	To be determined
6.	Final Permit Issued:	To be determined

XII. PLOT PLAN – see next page



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